Monitoring Data Record

Project Title: <u>U-2524AC (Greensboro Western Urban Loop)</u> COE Action ID: <u>200321137</u>
Stream Name: Long Branch (Site 2BA) DWQ Number: 030909
City, County and other Location Information: <u>Greensboro Western Loop</u> , <u>Guilford Co.</u>
(Remediation Plans Sta. 10+00 to 29+86)
Date Construction Completed: 2-29-08 Monitoring Year: (4) of 5
Ecoregion: 8 digit HUC unit 03030002
USGS Quad Name and Coordinates:
Rosgen Classification: Proposed reach is a E5 stream type
Length of Project: 1,986' Urban or Rural: Urban Watershed Size:
Monitoring DATA collected by: M. Green & J. Young Date: 1/24/11
Applicant Information:
Name: NCDOT Roadside Environmental Unit
Address: 1425 Rock Quarry Road Raleigh, NC 27610
Telephone Number: (919) 861-3772 Email address: mlgreen@ncdot.gov
Consultant Information:
Name:
Address:
Telephone Number: Email address:
Project Status: Complete
Monitoring Level required by COE and DWO (404 permit/ 401 Cert.): Level (1 \(\frac{1}{2}\)) 3
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Section 2. <u>PLANT SURVIVAL</u> Attach plan sheet indicating reference photos.

Attach plan sheet mulcating reference photos.

	fic problem areas (missing, stressed, damaged or dead plantings):
DWQ requested	that the kudzu be treated on site.
Estimated cau	ses, and proposed/required remedial action: <u>Div. 7 Roadside sprayed the kudzu loca</u>
on site in Octobe	er 2009. During the August 2010 evaluation there was minimal kudzu noted onsite. NCDOT v
continue to moni	tor and treat the kudzu noted onsite throughout the monitoring period.
ADDITIONA	AL COMMENTS: Long Branch streambank reforestation was completed on 2-29-08.
planting consiste	d of black willow and silky dogwood live stakes and green ash, river birch, tulip poplar, water o
and willow oak	bareroot seedlings. Other vegetation noted: lespedeza, mimosa, pokeberry, goldenrod, sycamo
	od, pine, briars, red maple, sweetgum, jewelweed, and various grasses. The planted vegetat
noted onsite is su	
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If required to complete Level 1 and Level 2 monitoring only stop here; otherwise, complete section 3.

Section 3. CHANNEL STABILITY

Visual Inspection: The entire stream project as well as each in-stream structure and bank stabilization/revetment structure must be evaluated and problems addressed.

Report on the visual inspection of channel stability. <u>Physical measurements of channel stability/morphology will not be required.</u> Include a discussion of any deviations from as-built and an evaluation of the significance of these deviations and whether they are indicative of a stabilizing or destabilizing situation.

The Long Branch stream relocation is stabile for the Year 4 Winter evaluation, except for, some minor bank scouring that still exist with little or no change since the last evaluation at the station numbers noted below. NCDOT will continue to monitor this stream relocation.

1/24/11 Sta. 11+50 Sta. 17+50 Sta. 20+00 Sta. 23+00 Sta. 27+00 PP#1 Additional Photo PP#5 Additional Photo PP#9 Upstream Downstream Downstream and Downstream Photo Photo Photo Structure Type Is water piping through or around structure? Head cut or down cut present? Minor bank Minor bank Minor bank Minor bank Minor bank Bank or scour scouring on scouring on scouring on scouring on erosion scouring on present? left bank right bank left bank left bank right and left bank downstream downstream downstream of boulder of boulder of boulder protection protection protection

Section 4. DEBIT LEDGER

The entire Long Branch (Site 2BA) stream relocation site was used for the U-2524BA project to compensate for unavoidable stream impacts.



Photo Point #1 (Upstream)



Photo Point #1 (Downstream)



Photo Point #2 (Upstream)



Photo Point #2 (Downstream)



Photo Point #3 (Upstream)



Photo Point #3 (Downstream)



Photo Point #4 (Upstream)



Photo Point #4 (Downstream)



Photo Point #5 (Upstream)



Photo Point #5 (Downstream)



Photo Point #6 (Upstream)



Photo Point #6 (Downstream)

Year 4 Winter – January 2011



Photo Point #7 (Upstream)



Photo Point #7 (Downstream)



Photo Point #8 (Upstream)



Photo Point #8 (Downstream)



Photo Point #9 (Upstream)



Photo Point #9 (Downstream)

Year 4 Winter – January 2011



Photo Point #10 (Upstream)



Photo Point #10 (Downstream)



Bank Scouring @ Sta. 17+50



Bank Scouring @ Sta. 23+00 on Left Bank

Year 4 Winter – January 2011



